Missouri Botanical Garden

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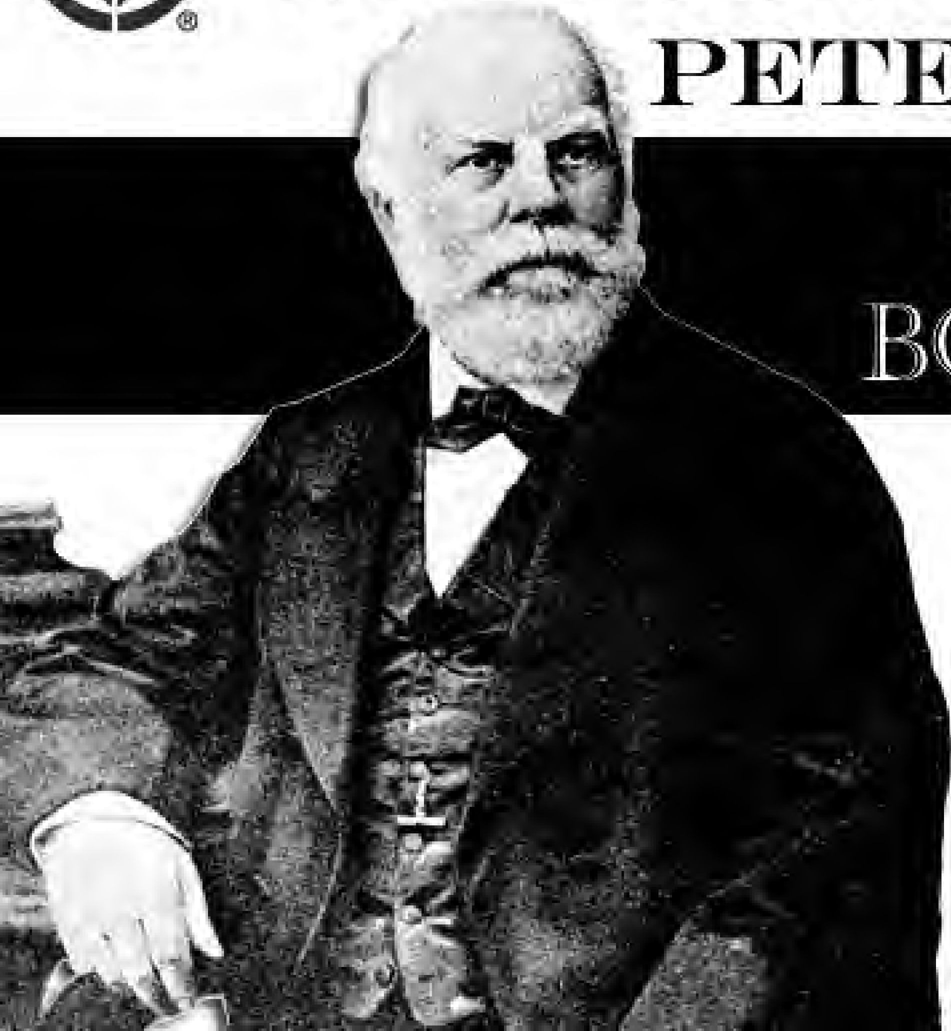

GEORGE ENGELMANN BOTANICAL NOTEBOOKS

Pagination Note:
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Cuscuta angulata n. sp.

Caulibus filiformibus, ~~floribus longe~~ bracteis linearilanceolatis; pedicellis ~~tenuibus~~ (? pollicaris flore longioribus (ultimis brevioribus), laxe fasciculatis; calycis profunde 5-partiti ad commissuras alato-angulati lobis late ovatis obtusis, tubum corollae late campanulatae superantibus; laciniis ovatis obtusis demum patulis; staminibus ~~aequilongis~~ aequantibus; antheris obtusis, basi profunde cordatis filamentis subulatis vix brevioribus; ~~pistillis ovario depresso globoso 2-3~~ squamis ovatis fimbriatis basi inter se connatis tubum fere excedentibus inclusis; pistillis ovario parvo depresso globoso bis terve longioribus, stigmatibus subclavatis stylo ~~p~~ subbrevioribus ~~longioribus~~.

~~Cape of good Hope.~~ C. Africana Choisy (A) ~~Cuscuta~~ Cusc. p. 176 ~~et~~ in DC Prod. IX. 454 ex parte fide spec. et cit. C. Africana C. Drege mss. in hb.

Cape of Good Hope; Dutoitskloof, 3000 alt. in Staavia, Drege! Mund & Maire; Harvey in Hb. Hook. Dr Roxburgh! in Hb Delessert (olim Hb. Lambert). ~~This is the only Cuscuta of species of this section with obtuse calyx or corolla but its principal ch~~ with the broadly oval obtuse lobes its 5 angled or rather 5 winged calyx with the broad and short flowers distinguish this at first ~~sight~~ from ~~both other~~ Cuscutae of this section though Choisy has confounded it with his C. Africana; as not only his reference to Drege's specimens as also the same identical specimen in DeCandolles Herbarium proves.

Flowers about 3/4 – 1 1/2 l. long, 1 3/4 ~~wide~~ wide when fully expanded; ~~styles~~ usually longer than the ~~stigmata~~ stigmata only in very young flowers of the

5313

1 cm length, Capsule & seed not seen

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C. nitida E. Meyer mss. Choisy

Syn. C. Burmanni Choisy in ~~Mass~~ Cusc. 177. t. 2. f. 1. DC Prod. IX. 457 fide spec. auth. in Hb. Delessert!

Well distinguished by the broad ~~ind~~ acute ~~lobes~~ of the calyx & the narrowly acute lanceolate laciniae of the corolla, and the stigmata which are usually much longer than the styles, rarely of ~~one distinct only~~ the same length. The stamens are half as long as the laciniae; the crenate scales as long or sometimes longer than the tube; capsule irregularly circumscissile.

~~Cape of good Hope~~

This is C. Africana a. Drege;
C. African. Zeyher & Eckl. 20. 77. 11. &
21. 1. 11
C. Africana Bowie in Hb. Delessert.

C. Burmanni Choisy, Cusc. 177. DC P. 9. 457 is the same plant as I have satisfied myself ~~by~~ a careful study of the original specimen in Hb. Delessert. This specimen is further interesting as it bears the inscription C. Americana and, as the polite Curator of that magnificent Herbarium, Mr Lasegue, informs me, in Thunberg's Handwriting. This may therefore be the original of the plant which Thunberg first named C. Americana (Prod. 32) and afterwards (in phyt. Bl.) C. Africana. So that this ~~form~~ would be the true Thunberg's C. Africana Th. But even if so, it would be better to leave the nomenclature as at present established, especially as it is probable that Thunberg knew also the ~~plant we~~ present C. African and confounded both. Anoth

~~Such~~ I have ascertained another fact bearing on ~~fact is of interest in this connection,~~ this question. In Jussieu's Herb., now in the Museum of the Jardin des Plantes in Paris, is a specimen of C. Chinensis labeled: C. Americana, Thunb., C. B. Sp. Thunberg ded. ~~I am no~~ It seems then that at one time at ~~Thunberg considered the~~ least Thunberg himself took C. Chinensis for his Americana; but as no other collector brought C. Chinensis from the Cape of Good Hope, it is possible that ~~he confounded it with Indian or Japanese~~ his specimens, if from India or China, are labeled so by mistake.

Dr. A. C. Alexander communicates a specimen with firmer red stems; usually they are pale; some of Drege's specimens exhibit a granulated, somewhat scabrous calyx.

C. Africana, Scholl, Hb Vindob
C. Portenschlag " "
C. Africana a Drege
Mund & Maire, Tiegersberg.
Zeyher & Ecklon 20. 77. 11. & 1. 11
Harvey 160 (Hb Hook
C. Americana Thunb. Hb Burman (Delessert
C. nitida E. M. Ecklon & Zeyher 21. 1. 11
C. Africana Alexander, 17 Nov. 46
C. Afric. Bergius in Hb Berlin
C. Dr Pappe Hb Hook.

18

Fl. Cap. p. 568 & phyt. Obs. p. 17

C. Africana Thunb? Chois Cusc. 176 & DC prod IX. 454 ex parte

This species is well characterized by ~~the short and thick stigmata; the slender [illegible] longer~~ long and capillary style which is often more than twice as long as the ~~that~~ oblong thick stigmata; the calyx is short, the (obtusish, venose) lobes imbricate; the laciniae of the corolla ~~longer than the~~ obtusish, involute at the margin, ~~[illegible]~~ open at tip, erect or spreading; ~~anthers~~ globose or ovate scales large, crenate; capsule in a single specimen ~~[illegible]~~ I could find one, apparently barren, or very [illegible] open laterally, with the corolla persistent at base, usually with a single globose seed. Flowers 1–1½ l. long, ~~seeds~~ 0.7 l. long.

Cap Good Hope Ecklon & Zeyher 22. 70. 10.

Drege 7010

Mund & Maire

C. Africana? Drege

~~Georgetown Dr A C. Alexander~~

C. Americana Thunb. prod 32 is the same as Thunberg's Africana but whether it is Choisy's plant is doubtful — see remarks to [illegible]

× see next page

C. Capensis Chois. Cusc. 175 t. 1 f. 4 DC Prod. IX. 454 is a larger form of the same species × with smoother and shorter calyx, ~~and~~ somewhat acutish (flowers 2¼–2¾ l. long) laciniae, and ~~somewhat~~ smaller scales. It is Drege's No 7837 and has also been collected by Dr Thom ~~in [illegible]~~, and Dr Alexander, ~~or Kaffraria~~?

It bears the same relation to C. Africana as C. Trifolii does to C. Epithymum.

Schrebera schinoides

Well hb 3161

X above: *Cuscuta fusiformis* Willd. cit. in R & Sch. 6 p. 205 refert here by Choisy is a misprint for *C. funiformis* as spelt in Wills herb No 3156, and it is no Cuscuta but a species of Cassytha from the Cape of Good Hope, as Schlechtendal has already shown. — Lin. V. 12

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C. grandiflora HBK n. gen. sp. III. 123 t. 213.
non Wall. Cat.

This beautiful and striking species is so well described by Kunth that it is not necessary to add ~~one~~ a single word. He already mentions (as he does also in regard to C. Popayanensis) the circumscissile capsule, ~~a fact~~, ~~a singularity~~ ignored by later botanists. ×

~~It~~ This species is peculiar to the Andes about the Equator. Humboldt and Goudot collected it near Bogota, Purdie also in New Granada, ~~Weddell (N. 4518 in Bolivia~~ Weddell and 4768 in Peru, Cl. Gay in Peru & Haenke and 4518 in Bolivia and Edmonston in Chili. —

× The raceme of flowers in the beautiful and otherwise very ~~correct~~ figure, on the left hand side is imaginary; the inflorescence is with certainty a loose ~~[illegible]~~ few flowered cyme.

~~×~~ The flowers are full 4 lines in diameter and 2½ – 3 l. high; ⊕ ~~the~~ styles and capsule ~~are~~ scabrous or verrucose, ~~as Kunth states~~; dry corolla at base of capsule; ripe seeds only 0.8" long, subglobose, very rough; the hilum seems to be reduced to a point, ~~This is one of the few species entirely destitute of scales.~~

⊕ the subulate filaments are inserted ~~be~~ somewhat below the faux; ~~the~~ scales are entirely ~~wanting~~ absent.

Cuscuta odorata Ruiz & Pav.! Fl. Peruv. I. 69 t. 105. f. a. !
non Choisy, nec Poeppig.
C. intermedia Choisy! Cusc. 179 t. 2 f. 3. DC. Prod. IX. 455. Cl. Gay Fl. Chil. 4 p. 447.

I have seen the original specimens in Ruiz's Herbarium, now in the royal Herb. at Berlin, and can have not the least doubt about the identity of the plant. In the flower Peruvian the corolla, capsule is already

Flowers on very short pedicells ~~almost sessile~~ in dense clusters, 3 l. long and [illegible] 4 wide; lobes rather longer than the tube; scales shallow * very large deeply fringed incurved; the dead corolla surrounds and partly covers the capsule irregularly opening; seeds nearly 1 line long, 3 angular, rounded.

Peru Ruiz in Herb. reg. Berlin; Pavon in Hb. Boissier, A. Matthews 486 in Hb. Hooker, Weddell 4693 in Hb. Mus. Paris, Ecuador Seemann in Hb. Hook. 852; Chili, Cl. Gay 38 & 815

* in Weddell's specimens the tube is more cylindric and longer ~~than the~~ (lobes short ovate), which approaches it to C. botryoides.

var.? botryoides is a form from South Brazil

In the Kew Herbarium ~~I find a specimen collected by~~ Lobb ~~in Southern Brazil~~, (No. 49) which ~~I have referred to~~ differs from C. odorata by the the cylindric or deeply campanulate tube of the corolla, which is longer than orbicular-ovate laciniae; the dense clusters of flowers are

Disposed in long bunches, resembling grapes; the corolla enveloping the widely gaping capsule; the stylar portion of the dissepiment is very broad and jagged. The form of the corolla approaches this form in C. Chilensis, but as I can find no other differential character in the single specimen preserved in Herbarium, I must needs for the present keep this peculiar looking plant united with C. odorata.

C. Jalapensis Schlecht. — Linnaea
8 p. 515.

Though published as early as 1833 this well marked species has been overlooked by later writers. This is similar to the last but has smaller and though short pedicelled, much less crowded flowers; its most striking characters are the conical regularly circumscissile capsule ~~and~~ with very strongly subulate styles, wherefore Schlechtendal calls the capsule

4 "two horned", not inappropriately. The Corolla withers at base of ~~[illegible]~~ capsule.
This species is peculiar (152) to Mexico.
Schiede and Linden (308) collected it near Jalapa, ~~Mexico~~; Galeotti (4413 — Hb. Delessert) in Oaxaca; Bustamente (83 — Hb. Torrey) and Graham (250 — Hb. Bentham) near Mexico.

5318

Chilensis Ker Bot Reg. 7. p. 603.
~~Cuscuta botryoides n. sp.~~
DC Prod IX 455, Cl. Gay Fl. Chil 4. p. 446

C. odorata Poeppig in Hb. No 90.

~~Apparently~~ A common plant in Chili, whence almost every collector sends it, well characterized by the densely clustered almost sessile flowers, ~~long~~ cylindric tube of the corolla, ~~&~~ the large almost sessile linear anthers, and scales much shorter than the tube, subulate styles even in fruit not exsert above the faux; seed hilum punctiform, with radiating lines over the ~~surface~~ whole umbilicus;

C. odorata Choisy Cusc. 180 t. 2 f. 4 & DC. Prod IX. 456 (non R & Pav.) is the same plant, & Gay Fl. Chil IV. 447.
The specimens quoted (Cl. Gay 816 & 817 & Bertero 940*) are distinguished from the ordinary form of C. chilensis by a thinner texture; ~~the other~~ another one, collected by Gaudichaud is absolutely the ordinary form.

note * Bertero 940 in Hb. Shuttleworth is C. racemosa var.

5319

n. gen & sp.

Cuscuta foetida H.B.K. III p. 122
DC Prod. IX. 460. ?
non Hook & Arn. Bot Beechy

C. pycnantha Benth. pl. Hartw. n. 1238 p. 226

C. corymbosa Jussieu in Hb. Jussieu, mus. Paris

C. foetida Hook & Arn. in Bot Beechy p. 304 is C. gracillima fide spec. in ~~Hb~~ Hook

Lobes of calyx and cylindric corolla very acute; stamens very short; scales ~~in Humboldts spec.~~ shorter than tube; in Humboldts spec. broadly ovate, in Hartwegs & Seemans & Couthouy's specimens narrower; styles strongly subulate; ~~capsule [illegible]~~ glomerules large & dense (1/2-1 inch in diam.), flowers fully 3 l. long; seeds 0.6''' long.

In Quito, ~~8000~~ - 10000' high (Humboldt, Couthouy) in Peru Jussieu, Ecuador Seemann, Columbia, Hartweg.

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Cuscuta acutiloba n. sp.

Caule filiformi; cymis laxis paucifloris, pedicellis capillaceis brevibus bracteis lanceolatis acuminatis suffultis; calycis campanulati lobis triangulatis acutis tubo corollae profunde campanulatae aequalibus; laciniis ~~erectis~~ lanceolatis contortuosis, erectis, demum reflexis tubum aequantibus v. eo paulo longioribus; staminibus multo brevioribus; (antheris ovatis filamentis) brevibus; squamis spathulatis fimbriatis faucem fere aequantibus; stylis ~~ovario aequalibus~~ e basi crassa subulatis, ovario aequalibus, inclusis; capsula corolla marcescente tota involuta, irregulariter circumscissa.

At the Bridge of Obragillo, Peru, Alex. Matthews No. 661 in Herb. Hooker. — Very nearly allied to C. foetida, but distinguished by the loose few flowered inflorescence, the small and apparently purple flowers (a colour not noticed in any other species), the short tube of the corolla, with the very acute lobes, and the still more broadly subulate styles. 1/20 inch (Flowers 1/3 – 1/2 l. long).

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25

applanata
Cuscuta ~~depressa~~ n. sp. (C. subsessilis)

Caule filiformi, floribus breviter pedicellatis in glomerulis globosis densis congestis; calycis campanulati tenuis lobis ovatis obtusis, tubum corollae late campanulatum depressum aequantibus; laciniis (patulis demum reflexis) ovatis obtusis, tubo aequantibus ~~staminibus~~; antheris oblongis filamenta brevia subulata aequantibus; squamis maximis, crispato-laciniatis ~~fimbriatis~~ ~~faucem~~ excedentibus super-ovarii (depressi magni) ~~tubum replentes~~ incumbentibus; stylis capillaribus ovario aequantibus s. eo longioribus, ~~effusis~~ exsertis; capsula depressa corolla marcescente investita, irregulariter circumscissa.

In Arizona Territory south of the Gila River; ~~Ch.~~ Wright in Mex. Boundary Surv. No. 1623 (541) on Nyctagineae and No. 1625 (685) on Ambrosia; in Septbr. — The glomerules of this species 3-4 l. in diam. are in the spec. bef. me ~~often~~ ~~strung~~ together like beads; the flowers ~~one~~ 12 in each glomerule, are of a thick texture and white colour; about 1-1¼ l. long; the capsule, about 1 l. in diam. and ½ l. high has a very small interstylar opening and ~~contains~~ various seeds (abt ½ l. long) with a ~~very~~ short ~~almost precedent~~ broadly linear (hilum ~~oblong~~ or perforation). — This species seems well distinguished from any other by the characters given.

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Cusc. Chinensis Lam! Enc. II. 229
Choisy Cusc. 183. t. 3. f. 4 DC Prod. IX. 457
Wight Ic. 1373.

~~A common plant of India and the adjoining~~
~~countries. The ordinary form has rather large~~

C. sulcata Roxb. Ind I. 447.
& Wall.! Cat. 1320 2 ~~& [illegible]~~
C. capillaris Wall.! Cat. 1321.
C. Americana Thunb.! fide sp. in Hb. Jussieu.
Grammica aphylla Lour.! Cochinch. 171. ed. Willd. I. 212.
fide spec. in Hb. Brit. Mus.

A common plant of the tropical countries of Asia and as it appears of the islands southward, extending into China (C. fimbriata Bunge fide spec. in Hb. H B Petersb. 16. and Griffith! Hb. 685 Cabul [illegible]) — characterized by the carinate (rather than sulcate Roxb.) lobes of the calyx, which often overlap with their subordinate angles at the corners forming [illegible], the slender styles, the thin capsule, covered by the corolla, ~~irregularly~~ circumscissile and usually opening ~~late~~ only at full maturity and therefore sometimes called baccate; Loureiro also describes the fruit of his Grammica (the original specimen of which is preserved in the Brit. Mus.) as a "bacca", though it shows the circumscissile capsule. The scales are rather large, deeply lacinate-fimbriate and not as Choisy describes & figures them short, adnate ~~flat the apex from~~ below throat. — flowers 1-1¼ l. long. — Seeds with hilum nearly perpendicular or somewhat oblique.

Another form which is ~~Cusc.~~ hyalina Wight Ic. (non Roth) and Wall! Cat. 1320 1 has ~~trifid~~ bifid, ~~rather~~ and especially the latter very small scales;

A form from the island of Nassibé, near

Madagascar (Boivin in ~~Hb.~~ Hb. Webb.) by the ~~corolla~~ (they also bifid scales) capsules exsert with larger, entirely open; C. carinata R. Br.! Prod. N. Holl. fl. I, 491 from the tropical parts of N. Holland. can not be distinguished but by the more strongly carinate and more obtuse lobes of the calyx, more obtuse laciniae and almost globose anthers.

C. ciliaris ~~Hochst.~~ in sched. ad Pl. Kotschy, Boiss. diag. pl. or. II. 9: 129, — is a stouter, larger flowered, northern form of the same plant, (fl. 1½–2¼ lin. ~~[illegible]~~) with shorter and stouter style; scales ~~oft~~ ~~spathulate~~ or often in the same flower bifid. It has also been collected by Kotschy near Mossul, by Dr Grant (in Kurdistan, Hb. Torr.).
The plant of Herb. Wight propr. No 2408 from India is the same thing, and the largest flowered specimen is preserved in the Herb. Mus. Paris under the name of C. exigua collected by Demidow (in the times of Pallas) at the Selenga river in Siberia. This is especially distinguished by the strongly crenulate ~~margins~~ lobes of the calyx & corolla, which however are ~~not rare in other forms of~~ in a slighter degree occur in ~~many~~ almost all the forms of C. Chinensis.

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Cuscuta tinctoria Martius mss. in herb.

caulibus subfasciculatis; floribus globosis ~~pe~~ pedicellatis in glomerulos laxos umbelliformes congestis; calycis cupulati lobis orbiculatis imbricatis tubum corollae campanulatae ~~[illegible]~~ aequantibus; laciniis tubo aequilongis ovatis obtusis, basi imbricatis, erectis sive patulis reflexisve; antheris ovatis filamento subulato brevissimo plerumque longioribus; squamis late ovatis ~~magnis~~, fimbriato-laceris, tubo aequalibus s. fere excedentibus ~~rep. ovar. depresso~~ incurvis; stylis filiformibus ~~[illegible]~~ ovario depresso longioribus fere exsertis; capsula irregulariter circumscissa, corolla marcescente involuta tectaque.

Mexico, apparently always on trees. Karwinski found it on Schinus molle in Oaxaca and relates that the natives use it under the name Zaca-tlascalli as a yellow dye. Dr Gregg found it near S. Louis Potosi in December in full bloom on the same
the loose clusters of flowers 6''' diam. are gathered ~~into~~ by racemes.
kind of trees. — ~~Flowers~~ 2-2½ lin. long; intrastylar opening small; seeds about 0.6 lin. long.
— The ~~capil.~~ filiform styles, ~~distinguish it~~ and the shape of the capsule distinguish it from C. Jalapensis; the ~~[illegible]~~ ~~stouter~~ form of the corolla and lobes ~~short tubes of the corolla~~ and shorter style from C. floribunda; the circumscissile capsule & much larger flowers from ~~C.~~ C. Gronovii; the short filaments from all the allied species. In the Berlin Herbarium I find however a form which Karwinsky collected on an Oak between Victoria and the Rio Blanco which I can not distinguish from C. tinctoria but by the ~~filaments~~ being as long or a little longer than the anthers.

5324

C. floribunda H.B.K. n. g. sp. III
DC Prod. IX. 459

The only specimen of this plant ~~collected~~ found by ~~Humboldt~~ Bonpland ~~at the~~ Istla ~~[illegible]~~ western Mexico, 3000' high ~~is~~ preserved in the royal Herbarium at Berlin and in (Hb. Willd. No. 3159, 3 ~~& Hb. Kunth~~ is in fruit only ~~the~~ and in rather poor condition; Enough is left however to show that the plant, which had not been collected since, is nearly allied to C. corymbosa (Popayan), as Kunth already states, but apparently well distinguished by the short & thick calyx with imbricate orbicular (lobes ~~deeply~~ to the base divided) and by the deeply divided corolla, the ~~oblong~~ linear obtuse (not acute) laciniae of which nearly equal the cylindric tube in length, which ~~nearly the~~ is twice the length of the calyx; filaments short (anthers not seen) (scales ~~almost as long as the~~ reaching to the throat, large, oval, deeply fimbriate) ~~dissepiment~~ styles portion of dissepiment reaching almost to the base of the capsule; seed 0.8''' long, narrow, triangular and very rough. — Flowers apparently 3 or with the reflexed lobes 2 l. long; capillary styles in fruit long exserted.

From C. tinctoria which is perhaps more nearly allied to C. corymbosa, it is distinguished by the long tube of the corolla, the ~~broad~~ narrow lobes of the corolla, the long styles and the narrow seeds;

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Sp. 180

common plant Cuscuta Americana Linn. ex parte

Jacq. Am. 30. p. 17.

often on shrubs & trees

from the West Indies, Mexico (on the Pacific) Choisy! Cusc. tab. 4 f. 4. DC Prod. IX. 459 on the Atlant. ~~Venezuela~~ ~~Guiana~~ to & Brazil

This ~~very~~ ~~distinct~~ species – though well characterized by the ~~short~~ ~~cyl.~~ small cylindric ~~flower~~ corolla with short erect lobes, deeply ensconced ~~imbedded~~, sometimes almost hidden, in the wide and deep ~~campanulate~~ ~~or with~~ cupulate calyx, by the ~~very~~ short scales which are attached to the middle of the corolla and rarely reach to the throat, by the slender styles, which are exsert only in fruit, by the slightly and irregularly circumscissile capsule; styles (dissepim. portion) reaching down to the base of the capsule, – is sufficiently variable to have ~~given~~ ~~rise~~ ~~to~~ quite a number of nominal species.

The two principal varieties are distinguished by Choisy as C. Americana l.c. and C. spectabilis tab. 5 f. 1. DC. Prod. IX. 459; the former has ~~usually~~ ~~more~~ ~~delicate~~, smaller flowers, usually of much firmer texture, and smaller slightly fimbriate or almost entire scales. ~~The~~ smallest flowered form of this is C. congesta Benth. Bot. Sulph. 138, from Acapulco, with triangular and almost entire scales; flowers 1 l. long, the same was collected by Dr Gregg at Mazatlan. C. campanulata Nuttall! in Hb. Acad. Philad. from the West Indies, & C. leiolepis Miquel! "Surinamensis Schlecht. in Lepp. 60, 200 t. 2 ~~in Linnaea~~ XVIII, 247 are forms with a little larger flowers. – Gardner Brazil 1775, Acapulco, [illegible] 2069. Karwinsky in the herb. Blanchet 736 and many others ~~belong here~~. Surinam Hostm. 464 [illegible] in sepibus! C. graveolens HBK.! n. gen. sp. 122 ~~is the same~~ Willd. herb. 3159 (is the same from Cumana)

The second principal form ~~may be~~ var. spectabilis, to which belong C. globulosa Benth. Bot. Sulph. 138 from Acapulco, has larger, usually much firmer, thicker & often globular flowers, with larger, more deeply fimbriate scales. The largest specimens I have seen ~~by me~~ ~~has~~ ~~Nr.~~ collected in Cuba by Linden, No 1994 has flowers 2¼ lin. long but does not differ otherwise. — Sieber Mart. 91 ~~has~~ smaller and ~~thinner~~ flowers ~~for~~ with thinner texture. C. citricola Schlecht. Linnaea XXII. 808 ~~from Surinam~~ does not seem to belong here on account of the reflexed lobes of the corolla which I never ~~a~~ ~~see~~ find in C. Americana, which however is not rare on ~~specimens~~ of Citrus in those regions; it seems to approach rather to C. racemosa

C. Americana Lin. in Part, & Auct. fl. Am. comprises C. Gronovii, C. compacta and other North American species

C. Americana Thunb. is = C. Africana fide Thunb. and = C. Chilensis according to a specimen of Thunberg in Hb. Sonder

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Cuscuta corymbosa Ruiz & Pavon!

~~Flor. Peruv. I. 69~~ t. 105. b.

the ~~plant~~ ~~char. emend.~~ described & figured under that name in the Flor. Peruv.

~~This~~ is an apparently rare form of a species which ~~even more variable than C. Americana~~ is common throughout Mexico and northern South America, and is even more variable than the nearly allied C. Americana and has given rise to even more nominal species.

C. corymbosa in the ~~sense~~ circumscription of the species ~~as I take it~~ here proposed has a cupulate rather lax calyx, much shorter than the long cylindric ~~tube~~ of the corolla; short broad and obtuse lobes of calyx and corolla, the latter erect or patulous; oval ~~oblong~~ and oval anthers sessile or on short very short filaments; scales mostly long and narrow, attached ~~at the middle~~ for the greater part of their length, more or less fringed at tip and sides, always considerably shorter than the tube; ovary small, ~~usually conic or subg~~ ~~often somewhat~~ ~~pear-shaped~~ globular or conic, with very long styles, which ~~usually~~ generally ~~are as long as the~~ reach as high as the anthers, and often become exsert as the fruit ripens. — capsule very small, deeply dividing bottom of the drying corolla, ~~with a very long~~ ~~subst~~ stylar portion of the dissepiment ~~thickened~~ as long as the capsule itself, with reduced to a point.

~~α. C. corymbosa R & P. l. c.~~

~~β. grandiflora~~

α. C. Popayanensis HBK! N. gen. Sp. III. p. 123 DC Prod IX. 460

1. forma grandiflora

flowers large, 3–4 l. long; ~~anthers~~ ~~sessile or with sho~~ on very short filaments or sessile; scales long and narrow, almost entirely adnate, in one form bifid.

in Humboldt's original specimen (C. cymosa Willd Herb 3157.) spatulate at tip and more deeply fringed; styles as long as ovary reaching to the anthers or shorter; ovary and capsule usually globose or very slightly conic. Kunth l. c. already mentioning the [illegible] capsule and says correctly that it is nearly allways [illegible]

This form has been collected in New Granada by Humboldt! in Columbia, Hartweg 1237! Comitan in Mexico, Linden 294! Caraccas Birschel! Gollmer! Venezuela Fendler 946! and in Peru Dombey! in Hb Mus. Paris (sub nom C. corymbosa). — I can not distinguish from this form C. patens Benth Bot Sulph 35. from Lower California ~~except~~ by its rather wider flowers, and a little shorter styles.

To the following forms I can not distinguish from C. Popayan

C. inclusa Choisy! Cusc. 179. t. 2. f. 2 DC Prod IX 455 from Mexico (Berlandier 1103!) has sessile anthers, the styles scarcely reaching ~~the~~ to the throat. Choisy's figure shows long filaments and his description speaks of "stamina basi corollae affixa" etc which is perfectly unintelligible — Choisy's figures are by no means reliable in the details. compare the scales in this figure of C. arabica, "chilensis" etc, the ovary of C. Gronovii or Americana etc

C. laxiflora Benth! Bot Sulph 138 from Acapulco is ~~about~~ the same plant with a conic ovary and capsule uniting this with the next form; flowers Nov [illegible]

C. Popayanensis Poepp hb. is C. micrantha Chois var.

0 1 2 3 4 5 6 7 8 9 10
cm
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